



Chestnut Creek Planning

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Thank you for coming

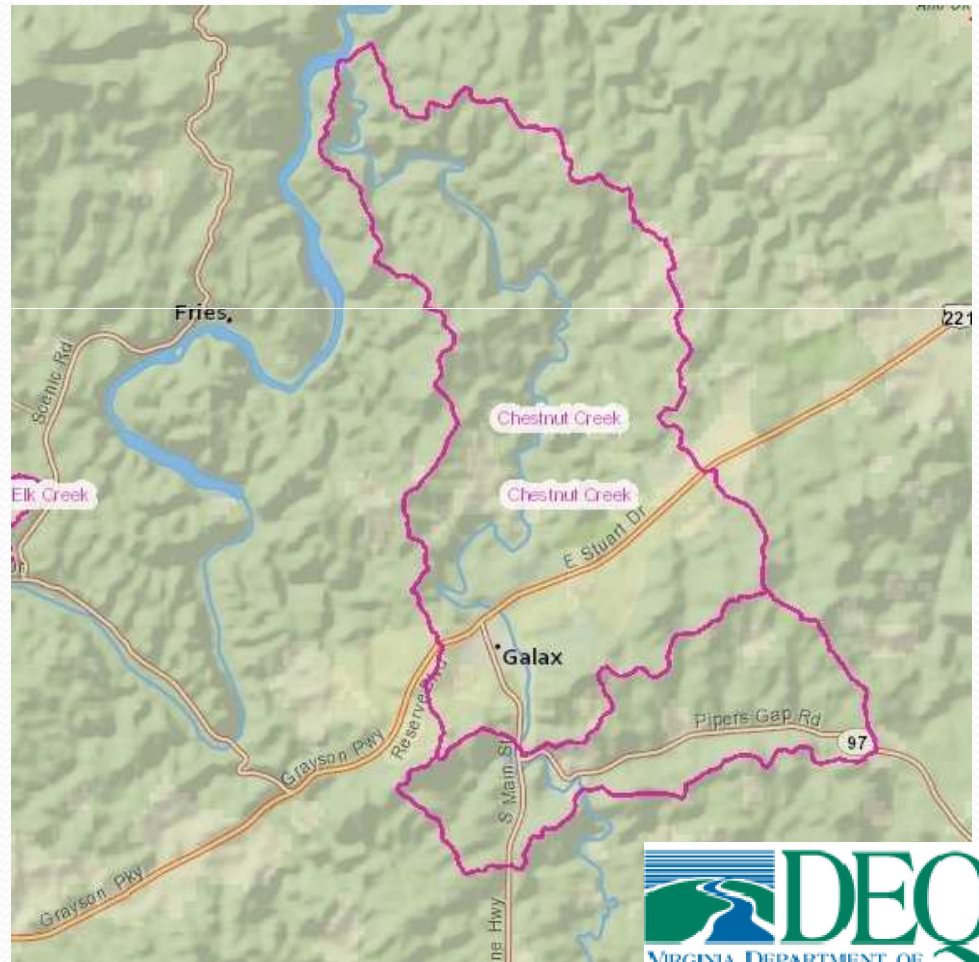
Decisions are made by the people who show up

-President Jed Bartlet, The West Wing

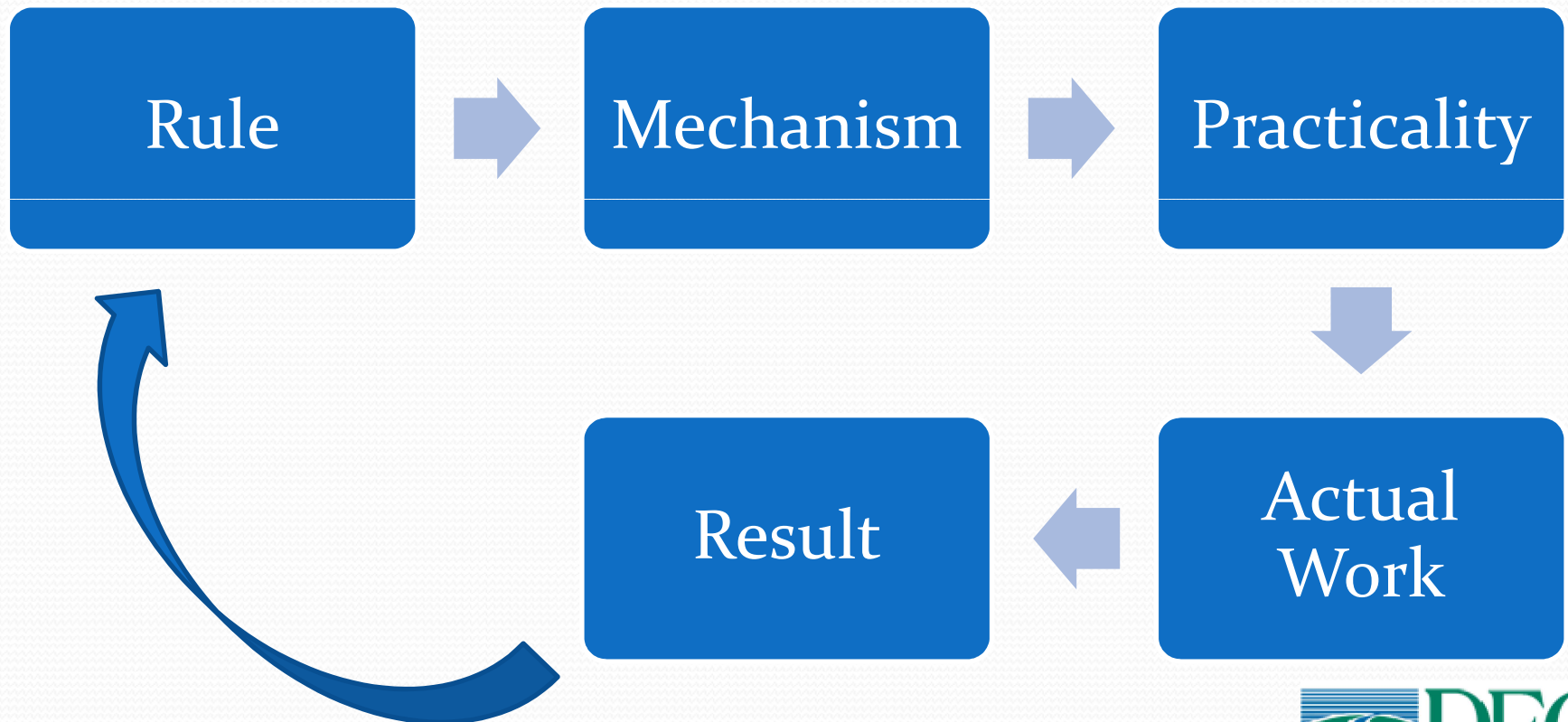


Why are we here?

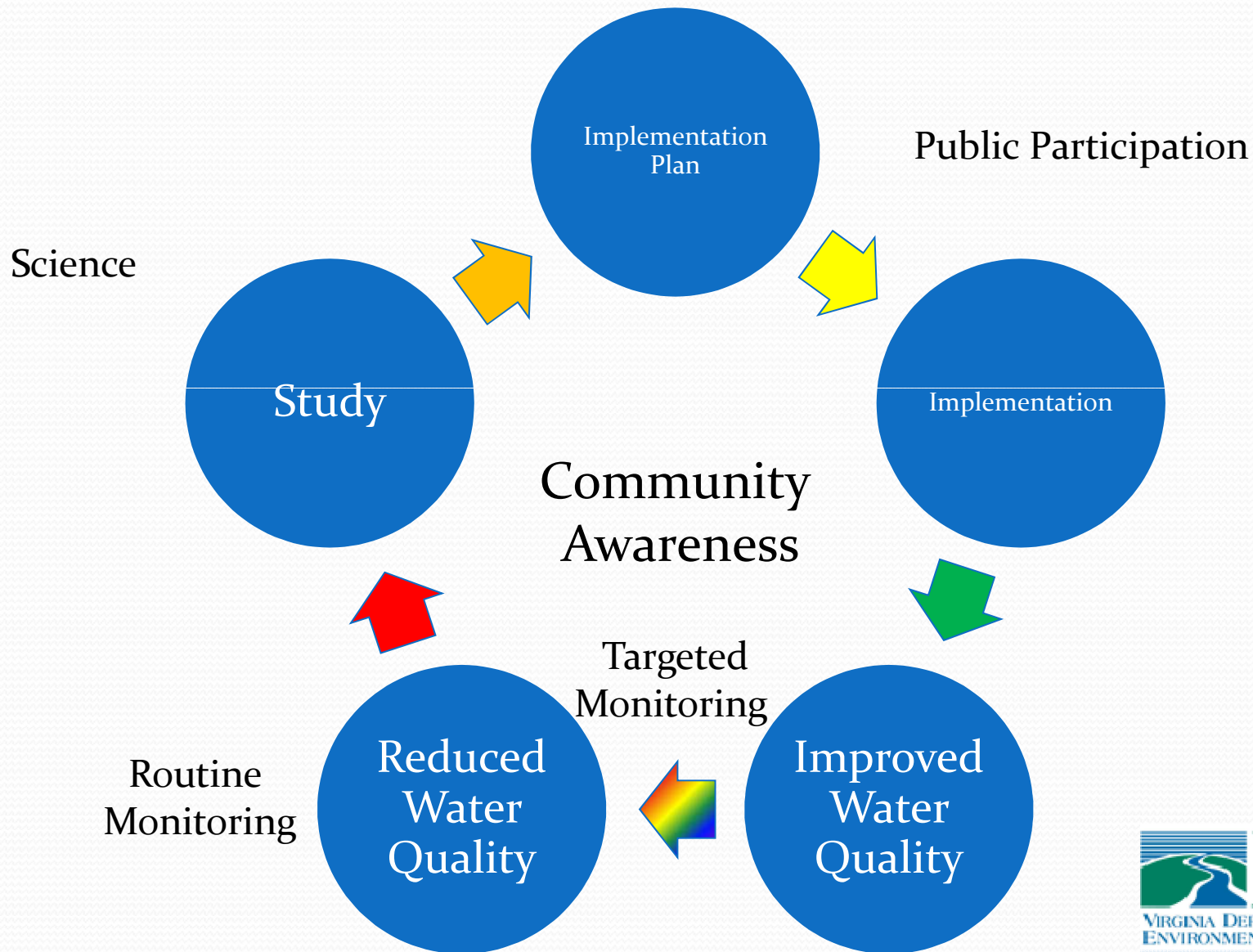
- Chestnut Creek
 - Impaired or 'dirty' waters list
 - Your back yard
- Our purpose is to identify solutions
 - Community driven
 - Voluntary
- Opportunity



Why are we here?



Process Overview



Total Maximum Daily Loads

- TMDLs
 - EPA, Clean Water Act (CWA) -> Virginia mandate
 - Protects 6 designated uses:
 - Aquatic life
 - Wildlife
 - Fishing
 - Shellfish
 - Swimming
 - Drinking



Total Maximum Daily Loads

- ‘Pollution Budget’
- Chestnut Creek ‘listed’ initially in 1996
- Listed for
 - *E.coli* (bacteria)
 - Aquatic life (sediment) as indicator of water quality



Total Maximum Daily Loads

- *E. coli*
 - Exceeds standard for water quality
 - Indicator of pathogens
- Sediment
 - Probable cause of aquatic life impairment
 - Aquatic life indicator of water quality
 - Indicator of watershed and habitat loss

Total Maximum Daily Loads (cont)

- Chestnut Creek continues to have problems
 - Bacteria or '*E. coli*'
 - Sediment and aquatic life
 - Considers permitted sources
- TMDL report approved 2006
 - Identify bacteria and sediment sources
 - Estimates reductions
- IP will help address
 - Required by Virginia WQMIRA

E. coli sources

- *E. coli*
 - Animal waste
 - Humans (sewer and septic)
 - Livestock (cattle, horses, etc.)
 - Wildlife
 - Pets (primarily dogs)

Sediment sources

- Sediment
 - Stormwater erosion
 - Livestock access to streams
 - Cropland runoff
 - Forest harvest
 - Construction



TMDL recommendations

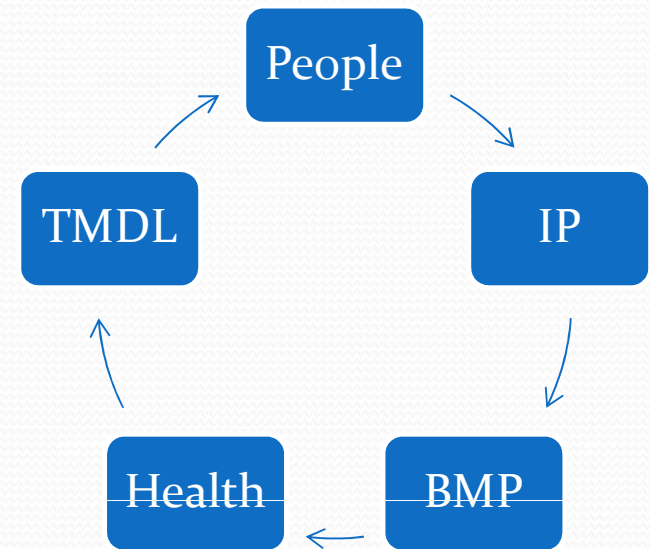
- Reduce human and livestock bacterial loading
- Reduce livestock grazing loading
- Install and track improvements and BMPs
- Control stormwater erosion
- Monitor to quantify bacteria and sediment reductions

New information since 2006?

- Major goal of this Implementation Planning project
 - Changes in land-use
 - New (since 'o6) BMPs and projects
 - Other changes that may influence planning

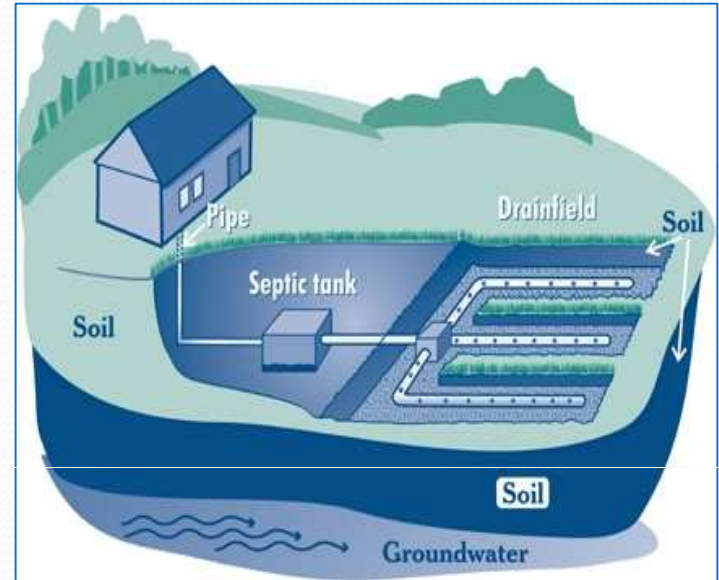
Today's Agenda

- Gain local input
- Establish working groups
 - Agriculture
 - Residential/Urban
 - Government
- Introduce Steering Committee concept
 - WG representative
 - Key agencies
 - Watershed citizens



Implementation

- Voluntary
- Technical Assistance
- Opportunities



Challenges

- Cooperation
 - Government
 - Land rights
- Funding
- Source identification and accuracy
- Focus on TMDL IP limitations and goals
 - Other activities
 - ‘Noise’

Your contributions

- General comments
 - Greatest concerns about creeks and water?
 - Greatest opportunities?
 - Other challenges?
- Specific strategies
 - Reaching community members
 - Bad ideas/things that won't work?
- Outreach activities?
- Potential partners?

This is your opportunity and your water

- Questions and Comments?
- Review TMDL study
- Break out into working groups



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